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         JAN 13
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                 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to
                 INPADOC
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         FEB 22
                 Status of current WO (PCT) information on STN
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         FEB 22
                 The IPC thesaurus added to additional patent databases on STN
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                 Updates in EPFULL; IPC 8 enhancements added
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                 New STN AnaVist pricing effective March 1, 2006
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         FEB 28
                 TOXCENTER reloaded with enhancements
                REGISTRY/ZREGISTRY enhanced with more experimental spectral
NEWS 18
        FEB 28
                 property data
NEWS 19
         MAR 01
                 INSPEC reloaded and enhanced
NEWS 20
         MAR 03
                 Updates in PATDPA; addition of IPC 8 data without attributes
NEWS 21
        MAR 08 X.25 communication option no longer available after June 2006
              FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
NEWS EXPRESS
              CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
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              http://download.cas.org/express/v8.0-Discover/
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 - FILE BIOTECHABS 6
 - FILE BIOTECHDS 6
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- F2 66 **EMBASE**

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F30	1	ANABSTR
F31	1	CONFSCI
F32	1	CROPB
F33	1	DDFB
F34	1	DRUGB
F35	1	EMBAL
F36	1	PROMT

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=> s (polypodium) and (extract###)
           272 POLYPODIUM
        249487 EXTRACT###
        303742 EXT
        222957 EXTS
        469821 EXT
                 (EXT OR EXTS)
        351673 EXTD
             7 EXTDS
        351675 EXTD
                 (EXTD OR EXTDS)
         54521 EXTG
             1 EXTGS
         54522 EXTG
                 (EXTG OR EXTGS)
        390924 EXTN
         14030 EXTNS
        396438 EXTN
                 (EXTN OR EXTNS)
       1063079 EXTRACT###
                 (EXTRACT### OR EXT OR EXTD OR EXTG OR EXTN)
L2
            80 (POLYPODIUM) AND (EXTRACT###)
=> dup rem
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PROCESSING COMPLETED FOR L2
             80 DUP REM L2 (0 DUPLICATES REMOVED)
L3
=> d scan
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L3
      80 ANSWERS
     11-1 (Plant Biochemistry)
CC
     Triterpenoids from Polypodium decumanum
TI
     Polypodium ferene acetoxyhopane sitosterol antimalarial
ST
     antibacterial
    Antibacterial agents
IT
    Antimalarials
       Polypodium decumanum
        (fer-9(11)-ene and 29-acetoxyhopane triterpenoids and \beta-sitosterol
        from Polypodium decumanum exts. and their
        antimalarial and antibacterial activities)
     83-46-5, β Sitosterol 1615-99-2, Fern-9(11)-ene 59169-24-3
IT
     RL: NPO (Natural product occurrence); PAC (Pharmacological activity); BIOL
     (Biological study); OCCU (Occurrence)
        (fer-9(11)-ene and 29-acetoxyhopane triterpenoids and \beta-sitosterol
        from Polypodium decumanum exts. and their
        antimalarial and antibacterial activities)
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0
=> s 12 and (rhizome)
          4519 RHIZOME
          4561 RHIZOMES
          7449 RHIZOME
              (RHIZOME OR RHIZOMES)
L4
            18 L2 AND (RHIZOME)
=> d total ibib abs
    ANSWER 1 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
                         2003:984805 CAPLUS
TITLE:
                         Novel therapeutic use of polypodium
                         extracts
INVENTOR(S):
                         Quintanilla, Almagro Eliseo
PATENT ASSIGNEE(S):
                         Especialidades Farmaceuticas Centrum, S.A., Spain;
```

Quintanilla Almagro, Eliseo

SOURCE: PCT Int. Appl.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE:

Patent Spanish

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT	NO.			KIN	D	DATE		1	APPL	ICAT	ION 1	. O <i>l</i>		D	ATE	
	. -				-									-		
WO 2003	310369	95		A1		2003	1218	1	WO 2	003-1	ES27	2		2	0030	605
: W	ΑE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚĖ,	KG,	ΚP,	KR,	KZ,	LC,	LK,	LR,
	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM,
	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,
	TZ,	UA,	ŪĠ,	US,	UΖ,	VC,	VN,	YU,	ZA,	ZM,	ZW					
RW	GH,	GM,	ΚĖ,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,
	KG,	ΚZ,	MD,	RU,	TJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
	FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,
	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG
ES 219	7018			Al		2003	1216	:	ES 2	002-	1345			2	0020	606
ES 219	7018			B1		2005	1001									
CA 2488	3356			AA		2003	1218		CA 2	003-	2488	356		2	0030	605
AU 2003	324085	50		A1		2003	1222		AU 2	003-	2408	50		2	0030	605
JP 2009	552845	52		T2		2005	0922		JP 2	004-	5108	14		2	0030	605
PRIORITY API	PLN.	INFO	. :					:	ES 2	002-	1345			A 2	0020	606
								1	WO 2	003-1	ES27	2	1	W 2	0030	605
								1	WO 2	003-1	ES27:	2	1	W 2	0030	605

The invention relates to a novel use of extracts of the genus AB Polypodiaceae for the treatment of fibrotic diseases, diseases caused by an overexpression of the components of the extracellular matrix or by an overexpression of Transforming Growth Factor (TFG-ss), e.g. scleroderma, pulmonary fibrosis, atherosclerosis, medullary fibrosis, hepatic fibrosis, pancreatic fibrosis, renal fibrosis, cardiac fibrosis, Dupuytren's disease and, in particular, Peyronie's disease. The invention also relates to the inhibition of the components of the extracellular matrix in vitro and the reduction of the fibrosis in the tunica albuginea of the penis and the size of the collagen plate in patients with Peyronie's disease using Polypodium extracts. In a preferred mode, the Polypodium extracts are obtained by extraction

with a polar solvent from the rhizomes of Polypodium leucotomos.

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 8 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 2 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:371470 CAPLUS

DOCUMENT NUMBER:

129:140525

TITLE:

Quantitative determination of antiinflammatory principles in some Polypodium species as a

basis for standardization

AUTHOR (S):

SOURCE:

Liu, B.; Diaz, F.; Bohlin, L.; Vasaenge, M.

Div. Pharmacognosy, Dep. Pharmacy, Biomedical Center, CORPORATE SOURCE:

Uppsala Univ., Uppsala, S-75123, Swed. Phytomedicine (1998), 5(3), 187-194

CODEN: PYTOEY; ISSN: 0944-7113 Gustav Fischer Verlag

PUBLISHER: DOCUMENT TYPE: Journal

LANGUAGE: English

Polyunsatd. fatty acids (linoleic, linolenic, arachidonic acid), the AB triflavonoid selliqueain, and a sulfonoglycolipid (SQDG) were determined quant. by high-performance liquid chromatog. in the leaves and rhizomes of 5 Polypodium species (Calaguala). Exts. of the 5 ferns were studied in 3 in vitro bioassays using platelet activating factor and leukotriene B4. SQDG was present in pharmacol. detectable

amts. in the crude exts. The anal. method for quant. determination of SQDG was recommended to be used for standardization of Calaguala extract in herbal drug prepns.

ANSWER 3 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:146151 CAPLUS

DOCUMENT NUMBER: 126:198476

TITLE: Effect of Anapsos (Polypodium leucotomos

extract) on in vitro production of cytokines

AUTHOR (S): Sempere, J. M.; Rodrigo, C.; Campos, A.; Villalba, J.

F.; Diaz, J.

Scientific Dept., ASAC Pharmaceutical International, CORPORATE SOURCE:

Alicante, 03006, Spain

British Journal of Clinical Pharmacology (1997), SOURCE:

43(1), 85-89 CODEN: BCPHBM; ISSN: 0306-5251

PUBLISHER: Blackwell DOCUMENT TYPE: Journal LANGUAGE: English

The aim of the study was to test the immunomodulating capacity of Anapsos, Polypodium leucotomos extract, in vitro to explore how this extract acts from an immunol. point of view and thus to identify a common link capable of explaining most of its effects. Polypodium leucotomos rhizomes were harvested in Guatemala and the extract, Anapsos, obtained. Mononuclear cells were obtained by d. gradient centrifugation from healthy donors, and stimulated with phytohemagglutinin or pokeweed with and without Anapsos and with Anapsos alone. Cell proliferation was determined by thymidine incorporation. Cells were also stimulated and the following cytokines determined by ELISA at 0, 12, 24, 48, 72, and 96 h: IL-1 β , TNF- α , IL-2, IFN- γ , IL-4 and IL-10. Anapsos, Polyodium leucotomos extract, has a modulating effect on the in vitro production and release of cytokines by peripheral blood mononuclear cells of healthy subjects. At doses effective in vivo, Anapsos can stimulate PBMC proliferation, delay IL-1 β secretion and at the same time increase that of IL-2, IL-10, and IFN- γ . Anapsos may have an antagonistic effect on some of the cytokines released on cell stimulation with LPS and/or PHA, which suggests that this product has a pleiotropic effect on different populations in the immune system.

ANSWER 4 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

1995:362977 CAPLUS ACCESSION NUMBER:

122:155672 DOCUMENT NUMBER:

Analysis of crude extracts and fractions of TITLE:

Brazilian Polypodiaceae by high-resolution gas chromatography-mass spectrometry. I. Triterpenes Patitucci, Maria Lucia; Pinto, Angelo, C.; Cardoso,

Jari N.

Instituto de Quimica, Universidade Federal do Rio de CORPORATE SOURCE:

> Janeiro, Rio de Janeiro, 21910-240, Brazil Phytochemical Analysis (1995), 6(1), 38-44

CODEN: PHANEL; ISSN: 0958-0344

Wiley PUBLISHER: DOCUMENT TYPE: Journal LANGUAGE: English

AUTHOR (S):

SOURCE:

AB Characterization of individual components in plant exts. through classical phytochem. methods is a multi-step procedure which is both costly and time-consuming. Also significant amts. of extract are required and detection of minor compds. is frequently not possible. method described in this work involves direct anal. of crude or prefractionated apolar or medium-polar exts. by high-resolution gas chromatog. and computerized high-resolution gas chromatog.-mass spectrometry, followed by co-injections of the crude extract with certified stds. on capillary columns of different polarities. The effectiveness of the method is illustrated for several species of Polypodiaceae (spores and rhizomes), allowing easy monitoring of compound-type distributions

(e.g. triterpenes) and detection of structures present at trace levels (for example, 22,29,30-trisnorhopane).

L4 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1995:325005 CAPLUS

DOCUMENT NUMBER:

123:199241

TITLE:

Synthesis and structure revision of intensely sweet

saponin, osladin

AUTHOR (S):

Nishizawa, Mugio; Yamada, Hidetoshi

CORPORATE SOURCE:

Faculty Pharmaceutical Sciences, Tokushima Bunri

University, Tokushima, 770, Japan

SOURCE:

Journal of the Indian Institute of Science (1994),

74(1), 169-79

CODEN: JIISAD; ISSN: 0019-4964

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB The total synthesis of compound 10, which is the reported structure of intensely sweet saponin osladin, has been completed. However, it is not as sweet as suggested. Re-extraction of the sweet principle of rhizomes of the fern Polypodium vulgare (Polypodiaceae) and single crystal X-ray diffraction study revealed its real structure to be 27. We also found it to be only 500 times sweeter than sucrose as against 3,000 times suggested elsewhere. Therefore, the total synthesis of the real osladin was achieved from steroidal aldehyde 20 by using newly developed β -selective and 2' hydroxyl group-discriminated glucosylation procedure and our original α -selective thermal rhamnosylation reaction. Synthetic osladin was also very sweet and thus we prove that osladin is the real sweet principle of the fern.

L4 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1987:572800 CAPLUS

DOCUMENT NUMBER:

107:172800

TITLE:

Isolation of ecdysones from plants

INVENTOR(S):

Vargas Gonzalez, Jose

PATENT ASSIGNEE(S):

Spain

SOURCE:

Span., 19 pp. CODEN: SPXXAD

Patent

DOCUMENT TYPE:

Spanish

1

Ι

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ES 547554 PRIORITY APPLN. INFO.:	A1	19860316	ES 1985-547554 ES 1985-547554	19851003 19851003

AB Ecdysones I (R = OH-substituted aliphatic radical) are **extracted** from leaves and **rhizomes** of **Polypodium** leucotomos, P. aureum, Phebodium decumanum and various conifer species. I have

immunosuppressant and antiviral activity. Thus, dried powders of any of the above species were extracted with boiling EtOH. The EtOH was evaporated and the residue was partitioned in a hexane-water system (10:4) in order to sep. the liposol. compds. Reverse-phase chromatog. on Amberlite XAP, followed by elution with MeOH gave I. Oral doses of 120 mg I every 8 h, for 10 days, were effective for the treatment of herpes zoster.

ANSWER 7 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN T.4

ACCESSION NUMBER: 1984:607744 CAPLUS

DOCUMENT NUMBER: 101:207744

TITLE: Chemotaxonomy of fern plants (I). Polypodium

amamianum Tagawa

Ageta, Hiroyuki; Arai, Yoko AUTHOR(S):

CORPORATE SOURCE: Showa Coll. Pharm. Sci., Tokyo, 154, Japan

Shoyakugaku Zasshi (1984), 38(1), 46-52 SOURCE:

CODEN: SHZAAY; ISSN: 0037-4377

DOCUMENT TYPE: Journal LANGUAGE: Japanese

Rhizome of P. amamianum contained fern-7-ene, hop-22(29)-ene, AB olean-18-ene, olean-12-ene, taraxer-14-ene, multiflor-8-ene, multiflor-7-ene, friedel-3-ene, 22-acetoxyhopane, germanicyl acetate, cycloeucalenyl acetate, cyclolaudenyl acetate, cyclomargenyl acetate, 7α -hydroxytaraxer-14-ene, $17\alpha H$ -trisnorhopan-21-one, 2-oxofriedel-3-ene, cyclolaudenone and cyclomargenone. They were either individually isolated or identified in the extract by gas chromatog.-mass spectra and 1H NMR. Some of these compds., especially triterpenoids of oleanane or migrated oleanane series contained in P. amamianum suggest close taxonomic relationship between this fern and P. niponicum and P. formosanum. From leaves of the fern, P. amamiamum, 2 new diterpenoids, (13R)-13,14-dihydroxyalepterolic acid and its acetate were isolated and identified. Since these are only in P. amamianum, they may provide a useful means for the taxonomic identification of this fern.

ANSWER 8 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN L4

1979:416672 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 91:16672

TITLE: Nonpolar pentacyclic triterpenes of the medicinal fern

Polypodium subpetiolatum

Anderson, Chris; Fuller, Forrest; Epstein, W. W. AUTHOR(S):

Dep. Chem., Univ. Utah, Salt Lake City, UT, 84112, USA CORPORATE SOURCE:

Journal of Natural Products (1979), 42(2), 168-73 SOURCE:

CODEN: JNPRDF; ISSN: 0163-3864

DOCUMENT TYPE: Journal

LANGUAGE: English GI

Me Me CHMe₂ Мe Η Н Мe RCO2 Н Me

I, R=Me

II, $R=Me(CH_2)_{14}$

AB The rhizomes of the medicinal Honduran fern P. leucotomos, commonly called "Calaquala", are claimed to exhibit antineoplastic activity. This prompted investigation of the nature of the compds. present in the rhizomes of the Guatamalan fern P subpetiolatum because this plant is also used medicinally and is referred to by the same common name "Calaguala". The isolation, characterization, and identification of the nonpolar fractions of a pentane extract of the rhizomes are described. The following pentacyclic triterpenes were characterized by chemical and phys. methods: 9(11)-fernene, 13(18)-neohopene, diploptene, 7-fernene, 17(21)-hopene, serratene, 3β -methoxy-9(11)-fernene, 3β -hydroxy-9(11)-fernene, 3β -acetoxy-9(115)-fernene (I), and fernenol palmitate (II). Neither I nor II have been previously isolated from natural sources.

ANSWER 9 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1976:105835 CAPLUS

DOCUMENT NUMBER: 84:105835

Structures of four new triterpenes from the TITLE:

rhizomes of Polypodium

juglandifolium

AUTHOR(S): Sunder, Ramadoss; Ayengar, K. N. Narayan; Rangaswami,

Srinivasa

CORPORATE SOURCE:

Dep. Chem., Univ. Delhi, Delhi, India Journal of the Chemical Society, Perkin Transactions SOURCE:

1: Organic and Bio-Organic Chemistry (1972-1999)

(1976), (1), 117-21 CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE: Journal LANGUAGE: English

For diagram(s), see printed CA Issue.

The structures of the triterpenes I (R = OH, R1 = H; R = H, R1 = OH), II,

and III, extracted from the rhizomes of P. juglandifolium,

were determined from chemical and spectral data. The acetates of II and III

occurred in the same plant material.

ANSWER 10 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1971:10541 CAPLUS

DOCUMENT NUMBER: 74:10541

TITLE: Extraction of ecdysterones from plant

material

INVENTOR(S): Jizba, Josef; Sorm, Frantisek; Herout, Vlastimil

PATENT ASSIGNEE(S): Ceskoslovenska Akademie Ved

SOURCE: U.S., 2 pp. CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE -----_ _ _ _ US 1968-710687 US 3527777 Α 19700908 19680305 PRIORITY APPLN. INFO.: US 1968-710687 A 19680305

For diagram(s), see printed CA Issue. GI

The insect hormones ecdysterone (I) and hydroxyecdysterone (II) were AB obtained from rhizomes of Polypodium vulgare by H2O or lower alc. extraction Chromatog. of defatted crude extract in

H2O on polyamide gave a crystallization mixture of I and II which was applied in

Me2CO to a SiO2 gel column and resolved by elution with CHCl3-MeOH (9:1). II, m. 244-6° (MeOH), is a new compound

ANSWER 11 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

1970:118226 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 72:118226

TITLE: Insect molting hormones from Polypodium

vulgare

PATENT ASSIGNEE(S): Ceskoslovenska Akademie Ved

SOURCE: . Brit., 3 pp. CODEN: BRXXAA

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

GB 1175483 19691223 GB CZ 137395 CZ DE 1643864 DE

PRIORITY APPLN. INFO.: CS 19670209

GI For diagram(s), see printed CA Issue.

AB Ecdysterone (Ia) and 5 β-hydroxyecdysterone (Ib) were isolated. Thus dried and ground rhizomes of P. vulgare were exhaustively extracted with EtOH, the solvent evaporated under reduced pressure, and the residual syrup (92 g) diluted with 400 ml H2O. The resulting mixture was washed exhaustively with petroleum ether, the aqueous solution diluted with an equal volume of MeOH and extracted with 5-8 portions of a n equal volume of n-BuOH or with 10 l. of CHCl3. The BuOH or CHCl3 extract was evaporated to dryness and the residue chromatographed on a polyamide column

with 500 ml fractions of H2O as eluent to give a mixture of Ia and Ib. The mixture (5.5 g) in Me2CO was chromatographed again on a column of silica gel (250 g, H2O content 15%) eluted with Me2CO or CHCl3-MeOH (9:1) to give 2 g

Ia, m. 243-7° (Me2CO), Ia. 3H2O, m. 151° (H2O) and 0.37 g

Ib, m. 244-6° (MeOH).

L4 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1967:479631 CAPLUS

DOCUMENT NUMBER: 67:79631

TITLE: Plant substances. XXVI. Isolation of constituents of

common polypody rhizomes

AUTHOR(S): Jizba, Josef; Herout, Vlastimil

CORPORATE SOURCE: Ceskoslov. Akad. Ved., Prague, Czech.

SOURCE: Collection of Czechoslovak Chemical Communications

(1967), 32(8), 2867-74

CODEN: CCCCAK; ISSN: 0010-0765

DOCUMENT TYPE: Journal LANGUAGE: English

AB cf. CA 64: 2455h. The following compds. were isolated from the

hydrophilic part of the EtOH extract of the rhizomes of Polypodium vulgare: sucrose, polypodine A (I), m. 150-1°,

[\alpha] 20D + 61.8° (c 0.19, MeOH), polypodine B, m. 244-6°, [\alpha] 20D + 92.8° (c 0.18, MeOH), glucocaffeic

acid, m. 133-5°, $[\alpha]$ 20D -80.4°, polydine, m.

191-3°, $[\alpha]$ 20D -121.6° (c 0.24, MeOH), osladine, m. 201-3°, samambaine, m. 251-2°, and 2 saponins, m. 199-201° and 213-14°, resp. I is identical with

crustecdysone (CA 67: 18149y). The lipophilic part of the extract

contained fernene.

L4 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1967:52936 CAPLUS

DOCUMENT NUMBER: 66:52936

TITLE: Presence of glycyrrhizinic acid in rhizomes

of Polypodium vulgare collected in

Netherlands

AUTHOR(S): Van der Vijver, L. M.; Uffelie, O. F.

CORPORATE SOURCE: State Univ., Utrecht, Neth.

SOURCE: Pharmaceutisch Weekblad (1966), 101(51-52), 1137-9

CODEN: PHWEAW; ISSN: 0031-6911

DOCUMENT TYPE: Journal LANGUAGE: English

AB Rhizomes of the fern, P. vulgare, were gathered in the

Netherlands during September. Exts. were made from fresh and

dried samples. Thin-layer chromatog. and spectrophotometry, failed to detect any glycyrrhizinic acid present in the precipitate from the exts

L4 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1966:75920 CAPLUS DOCUMENT NUMBER: 64:75920 ORIGINAL REFERENCE NO.: 64:14228a-c Triterpenoid epoxide from Polypodium vulgare TITLE: Berti, G.; Bottari, F.; Marsili, A.; Morelli, I. AUTHOR (S): CORPORATE SOURCE: Univ. Pisa, Italy SOURCE: Tetrahedron Letters (1966), (9), 979-82 CODEN: TELEAY; ISSN: 0040-4039 DOCUMENT TYPE: Journal English LANGUAGE: For diagram(s), see printed CA Issue. GI cf. CA 62, 5135d. Chromatography of the nonsaponifiable fraction of the petr. ether extract from the dry rhizomes of P. vulgare on neutral Al203 (activity II) and elution with petr. ether gave in succession 9(11)-fernene, 22-hopene, and a new compound (I), m. 268-70°, [α] 28D 47° (CHCl3), no color with C(NO2)4, and no CO or OH bands in the ir spectrum. I treated with alc. HCl gave a heteroannular conjugated diene ($\bar{\text{II}}$), m. 155-70°, [α] 20D 80° (CHCl3). I was recovered unchanged after refluxing 6 hrs. with LiAlH4 in Et20. These data indicated the presence of ah indered tetrasubstituted epoxide. II hydrogenated over Pt-C rapidly gave an alkene, changed more slowly to 17(21)-hopene (III), indicating the formulation of II as shown. III treated with p-O2NC6H4CO3H in CHCl3 yielded 80% I, tentatively considered as the β -epoxide. I treated with BF3-Et2O gave a different diene, m. 167-8°, [α] 20D 51°, together with 10% of a ketone, m. 266-72° [α] 20D 53°. ANSWER 15 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1965:29100 CAPLUS DOCUMENT NUMBER: 62:29100 ORIGINAL REFERENCE NO.: 62:5135d-g Cyclolanostanic triterpenes isolated from ferns TITLE: Berti, Giancarlo; Bottari, Francesco; Macchia, Bruno; AUTHOR(S): Marsili, Antonio; Ourisson, Guy; Piotrowska, Hanna CORPORATE SOURCE: Inst. Chim., Strasbourg SOURCE: Bulletin de la Societe Chimique de France (1964), (9), 2359-60 CODEN: BSCFAS; ISSN: 0037-8968 DOCUMENT TYPE: Journal LANGUAGE: French AB Polypodium vulgare roots (rhizoma), when extracted by petr. ether, yielded 10% oil, which was then treated with a NaOH-EtOH solution, giving 30% nonhydrolyzed residue. During chromatography of the residue on Al2O3, petr. ether eluted 12% of the hydrocarbons, mainly fernene; petr. ether-C6H6 47% of the unsatd. alcs. The rechromatography of the last fraction on Al2O3 or better as acetates on SiO2 followed by crystallization of their benzoates yielded 2 components: cyclolaudenol. (I), m. 123-5°, $[\alpha]D$ +45°, and its 4-methyl homolog (II), m. 139-40°, [α]D +44°, 3-acetate, m. 108-10°, 3-benzoate, m. 164-6°, $[\alpha]D$ +64° $[\Delta \epsilon 290]$ + 0.91], 3-keto derivs., m. 129-30°. Data for the corresponding derivs. of I are also given. By mass spectroscopy and elemental analysis, the compns. C31H52O for I and C30H50O for II were found. Addnl. data were obtained for both alcs. from ir and N.M.R. spectra relative to the appearance of isopropylene group. The reaction of the benzylidene derivative of II, m. 65-75°, with MeI and tert-BuOK, which yielded the benzylidene derivative of I, m. 110-25°, shows the absence of a Me group on C4 in II in comparison with I. Besides I and II, 2 other unsatd. alcs. were found. The presence of cyclolaudenol in 2 other ferns

(Ceterach officinarum and Phyllitis scolopendrium) is announced. A plant material called balatol obtained by Cocker and Shaw CA 58, 6873c was also examined and found to be mainly a mixture of I and II.

L4 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1934:23731 CAPLUS

DOCUMENT NUMBER: 28:23731
ORIGINAL REFERENCE NO.: 28:2847b-f

TITLE: Licorice fern and wild licorice as substitutes for

licorice

AUTHOR(S): Fischer, Louis; Lynn, E. V.

SOURCE: Journal of the American Pharmaceutical Association

(1912-1977) (1933), 22, 1225-30 CODEN: JPHAA3; ISSN: 0003-0465

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

This is a continuation of studies on licorice fern Polypodium vulgare L. var. occidentalis Hoak. (C. A. 25, 4087) and a new study of wild licorice Glycyrrhiza lepidata (Nutt) Pursh. Material was identified by G. N. Jones. Licorice fern rhizomes (A) and leaves (B) were collected near Seattle, Wash. and wild licorice rhizome (C) near The Dalles, O. in June, 1929. Loss in air was (A) 75.6, (B) 74.4 and (C) 59.0%. Loss at 110° was (A) 79.2, (B) 77.1 and (C) 59.9%. The cleaned and air-dried material was used. Total ash was (A) 2.7, (B) 6.2 and (C) 5.2%. Acid-insol. ash was (A) 0.27, (B) 0.08 and (C) 0.55%. Et20-soluble extract was (A) 7.3 and (C) 1.67%. CHCl3-soluble extract was (A) 7.7 and (C) 1.75%. EtOAc-soluble extract was (A) 15.6 and (C) 3.7%. EtOH-soluble extract was (A) 35.8 and (C) 14.3%. H2O-soluble extract was (A) 41.2 and (C) 27.9%. Reducing sugars were (A) 4.2, (B) 17.0 and (C) 2.3%. Sucrose was (A) 15.5, (B) 0.66 and (C) 3.64%. Starch was (A) 6.3 and (C) 3.5%. Pentosans (A. O. A. C.) were (A) 7.75 and (C) 14.6%. N + 6.25 was (A) 9%. Tannin was (A) 2.5%. Alkaloids were absent in each. Glycyrrhizin, Housemann's method (C. A. 15, 2959) (real licorice), was 7.89 and (C) 8.39%. The residues from (A) and (C) were not sweet. The Tschirch and Cedarberg method gave the characteristic sweet acid from genuine licorice but not for (A) and (C). Hence it was concluded that neither of the plants contained genuine glycyrrhizin. Benzoic and salicylic acids were obtained from (B); also a phytosterol m. 132-3° and an unidentified substance m. 74°. A new glucoside polydin was isolated from (A). It had no effect when fed to a rat. If previously extracted with CHCl3 prepns. of (A) might be used in medicine in place of genuine licorice. Licorice fern may be cultivated.

L4 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1931:36351 CAPLUS

DOCUMENT NUMBER: 25:36351

ORIGINAL REFERENCE NO.: 25:4087i,4088a-b

TITLE: Polypodium occidentale

AUTHOR(S): Fischer, Louis J.; Goodrich, F. J.

SOURCE: Journal of the American Pharmaceutical Association

(1912-1977) (1930), 19, 1063-71 CODEN: JPHAA3; ISSN: 0003-0465

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

AB The licorice fern, Polypodium occidentale, is abundant along the northwest American coast from California to Alaska. The rhizomes were collected during 1927 and 1928 and dried at 75°. They were then ground and tested by the A. O. A. C. methods: loss in air 75.44-75.81, loss at 110° 3.48-3.60, total volatile matter 78.92-79.41, ash 2.68-2.69, acid-insol. ash 0.26-0.28 and water-insol. ash 2.06-2.09%. The drug was extracted with various organic solvents and the results recorded. The amount extracted by water was 41.34-41.04%. Glucose or levulose and starch were present. The amount of pentosans was 6.39-6.05, of tannins 3.45-3.89 and of volatile oil 0.0005% by steam

distillation The coloring matter was isolated. It dyed silk a fast pale yellow

but had no effect on cotton or wool. Glycyrrhizin was present to the extent of 2.36% (on dried **rhizome**). Ammoniated glycyrrhizin was prepared; its chemical reactions agreed with those of the same product from glycyrrhiza but its color and taste were not identical. Various pharmaceutical prepns. were made and compared with the analogous preparation from licorice. These prepns. were not the equal of the official preparation; most of them had a bitter taste. The **rhizome** contains a starch-splitting enzyme. A fluidext. of the **rhizome** was not toxic to rats.

L4 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1925:17435 CAPLUS

DOCUMENT NUMBER: 19:17435
ORIGINAL REFERENCE NO.: 19:2259e-g

TITLE: Polypodium vulgare, L AUTHOR(S): Volmar, J.; Reeb, E.

SOURCE: Journal de Pharmacie d'Alsace et de Lorraine (1924),

51, 190-3 CODEN: JPHLA2

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

AB The **rhizome** of **Polypodium** owes its cholagog action (Leclerc, L'Union pharm. 1921, 137) to a glucoside, polypodin. From 500 g. of **rhizome** remove glycyrrhizin (A) by cold aqueous maceration for

48 hrs., then boil with 1 l. H2O for 1 hr., cool, filter and evaporate to 500 cc., precipitate the remainder of A with 1: 5 H2SO4, again filter, saturate

NH4-OH and evaporate to dryness. Take up with 150 cc. of H2O, add 100 g. (NH4)2SO4 and warm to complete solution of the salt; filter the precipitate formed,

wash it with a cold saturated solution of the salt, and extract with EtOH. Evaporate the alc. solution to dryness, and treat with H2O. An insol. brown resin is left, soluble in dilute alkali. Treat the aqueous solution with Pb(AcO)2,

remove Pb with H2S, expose to air for 48 hrs., filter and evaporate to crystallization

Polypodin forms yellowish plates, m. $151^{\circ}-152^{\circ}$, soluble in H2O and organic solvents. It is a bitter, sapogenetic glucoside, free from N. Several color tests are given.

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COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 58.39 59.82

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TOTAL SESSION

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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FULL ESTIMATED COST	58.39	59.82
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	ENTRY	SESSION
CA SUBSCRIBER PRICE	-13.50	-13.50

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INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ... ENTERED AT 07:47:23 ON 17 MAR 2006 SEA (POLYPODIUM) AND (EXTRACT###)

> 3 FILE ADISNEWS

- FILE AGRICOLA A
- FILE ANABSTR 1
- 55 FILE BIOSIS
- 6 FILE BIOTECHABS
- FILE BIOTECHDS 6
- FILE BIOTECHNO 10
- FILE CABA 35
- FILE CAPLUS 80
- FILE CONFSCI 1
- FILE CROPB 1
- FILE CROPU
- 1 FILE DDFB
- 26 FILE DDFU
- 3 FILE DISSABS
- FILE DRUGB 1
- FILE DRUGMONOG2
- FILE DRUGU 31
- FILE EMBAL
- 66 FILE EMBASE
- 20 FILE ESBIOBASE
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L1
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L2
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     ANSWER 1 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
L4
AB
     The invention relates to a novel use of extracts of the genus
     Polypodiaceae for the treatment of fibrotic diseases, diseases caused by
     an overexpression of the components of the extracellular matrix or by an
     overexpression of Transforming Growth Factor (TFG-ss), e.g. scleroderma,
     pulmonary fibrosis, atherosclerosis, medullary fibrosis, hepatic fibrosis,
     pancreatic fibrosis, renal fibrosis, cardiac fibrosis, Dupuytren's disease
     and, in particular, Peyronie's disease. The invention also relates to the
     inhibition of the components of the extracellular matrix in vitro and the
     reduction of the fibrosis in the tunica albuginea of the penis and the
     size of the collagen plate in patients with Peyronie's disease using
     Polypodium extracts. In a preferred mode, the
     Polypodium extracts are obtained by extraction
     with a polar solvent from the rhizomes of Polypodium
     leucotomos.
=> d total ibib abs
     ANSWER 1 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
                         2003:984805 CAPLUS
TITLE:
                         Novel therapeutic use of polypodium
                         extracts
                         Quintanilla, Almagro Eliseo
INVENTOR(S):
                         Especialidades Farmaceuticas Centrum, S.A., Spain;
PATENT ASSIGNEE(S):
                         Quintanilla Almagro, Eliseo
SOURCE:
                         PCT Int. Appl.
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
                         Spanish
LANGUAGE:
FAMILY ACC. NUM. COUNT:
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PATENT INFORMATION:
     PATENT NO.
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                                20031218 WO 2003-ES272
     WO 2003103695
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KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
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PRIORITY APPLN. INFO.:
                                               ES 2002-1345
                                                                     Α
                                                                        20020606
                                               WO 2003-ES272
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                                                                        20030605
     The invention relates to a novel use of extracts of the genus
AB
     Polypodiaceae for the treatment of fibrotic diseases, diseases caused by
     an overexpression of the components of the extracellular matrix or by an
     overexpression of Transforming Growth Factor (TFG-ss), e.g. scleroderma,
     pulmonary fibrosis, atherosclerosis, medullary fibrosis, hepatic fibrosis,
     pancreatic fibrosis, renal fibrosis, cardiac fibrosis, Dupuytren's disease
     and, in particular, Peyronie's disease. The invention also relates to the
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inhibition of the components of the extracellular matrix in vitro and the reduction of the fibrosis in the tunica albuginea of the penis and the size of the collagen plate in patients with Peyronie's disease using Polypodium extracts. In a preferred mode, the Polypodium extracts are obtained by extraction with a polar solvent from the rhizomes of Polypodium

leucotomos.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 2 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:371470 CAPLUS

DOCUMENT NUMBER: 129:140525

TITLE: Quantitative determination of antiinflammatory

principles in some Polypodium species as a

basis for standardization

Liu, B.; Diaz, F.; Bohlin, L.; Vasaenge, M. AUTHOR (S):

CORPORATE SOURCE: Div. Pharmacognosy, Dep. Pharmacy, Biomedical Center,

Uppsala Univ., Uppsala, S-75123, Swed. Phytomedicine (1998), 5(3), 187-194 CODEN: PYTOEY; ISSN: 0944-7113 SOURCE:

PUBLISHER: Gustav Fischer Verlag

DOCUMENT TYPE: Journal

LANGUAGE: English

Polyunsatd. fatty acids (linoleic, linolenic, arachidonic acid), the triflavonoid selligueain, and a sulfonoglycolipid (SQDG) were determined quant. by high-performance liquid chromatog. in the leaves and rhizomes of 5 Polypodium species (Calaguala). Exts. of the 5 ferns were studied in 3 in vitro bioassays using platelet activating factor and leukotriene B4. SQDG was present in pharmacol. detectable amts. in the crude exts. The anal. method for quant. determination of SQDG was recommended to be used for standardization of Calaguala extract in herbal drug prepns.

ANSWER 3 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:146151 CAPLUS

DOCUMENT NUMBER: 126:198476

TITLE: Effect of Anapsos (Polypodium leucotomos extract) on in vitro production of cytokines

AUTHOR (S): Sempere, J. M.; Rodrigo, C.; Campos, A.; Villalba, J.

F.; Diaz, J.

Scientific Dept., ASAC Pharmaceutical International, CORPORATE SOURCE:

Alicante, 03006, Spain

SOURCE: British Journal of Clinical Pharmacology (1997),

43(1), 85-89

CODEN: BCPHBM; ISSN: 0306-5251

PUBLISHER: Blackwell

DOCUMENT TYPE: Journal LANGUAGE: English

The aim of the study was to test the immunomodulating capacity of Anapsos, AR Polypodium leucotomos extract, in vitro to explore how this extract acts from an immunol. point of view and thus to identify a common link capable of explaining most of its effects. Polypodium leucotomos rhizomes were harvested in Guatemala and the extract, Anapsos, obtained. Mononuclear cells were obtained by d. gradient centrifugation from healthy donors, and stimulated with phytohemagglutinin or pokeweed with and without Anapsos and with Anapsos alone. Cell proliferation was determined by thymidine incorporation. Cells were also stimulated and the following cytokines determined by ELISA at 0, 12, 24, 48, 72, and 96 h: IL-1 β , TNF- α , IL-2, IFN- γ , IL-4 and IL-10. Anapsos, Polyodium leucotomos extract, has a modulating effect on the in vitro production and release of cytokines by peripheral blood mononuclear cells of healthy subjects. At doses effective in vivo, Anapsos can stimulate PBMC proliferation, delay IL-1 β secretion and at the same time increase that of IL-2, IL-10, and IFN- γ . Anapsos may have an antagonistic effect on some of the cytokines released on cell stimulation with LPS and/or PHA, which suggests that this product has a pleiotropic effect on different populations in the immune system.

L4 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:362977 CAPLUS

DOCUMENT NUMBER: 122:155672

TITLE: Analysis of crude extracts and fractions of

Brazilian Polypodiaceae by high-resolution gas chromatography-mass spectrometry. I. Triterpenes

AUTHOR(S): Patitucci, Maria Lucia; Pinto, Angelo, C.; Cardoso,

Jari N.

CORPORATE SOURCE: Instituto de Quimica, Universidade Federal do Rio de

Janeiro, Rio de Janeiro, 21910-240, Brazil Phytochemical Analysis (1995), 6(1), 38-44

CODEN: PHANEL; ISSN: 0958-0344

PUBLISHER: Wiley
DOCUMENT TYPE: Journal
LANGUAGE: English

SOURCE:

AB Characterization of individual components in plant exts. through classical phytochem. methods is a multi-step procedure which is both costly and time-consuming. Also significant amts. of extract are required and detection of minor compds. is frequently not possible. The method described in this work involves direct anal. of crude or prefractionated apolar or medium-polar exts. by high-resolution gas chromatog. and computerized high-resolution gas chromatog.-mass spectrometry, followed by co-injections of the crude extract with certified stds. on capillary columns of different polarities. The effectiveness of the method is illustrated for several species of Polypodiaceae (spores and rhizomes), allowing easy monitoring of compound-type distributions (e.g. triterpenes) and detection of structures present at trace levels (for example, 22,29,30-trisnorhopane).

L4 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:325005 CAPLUS

DOCUMENT NUMBER: 123:199241

TITLE: Synthesis and structure revision of intensely sweet

saponin, osladin

AUTHOR(S): Nishizawa, Mugio; Yamada, Hidetoshi

CORPORATE SOURCE: Faculty Pharmaceutical Sciences, Tokushima Bunri

University, Tokushima, 770, Japan

SOURCE: Journal of the Indian Institute of Science (1994),

74(1), 169-79

CODEN: JIISAD; ISSN: 0019-4964

DOCUMENT TYPE: Journal LANGUAGE: English

AB The total synthesis of compound 10, which is the reported structure of intensely sweet saponin osladin, has been completed. However, it is not

as sweet as suggested. Re-extraction of the sweet principle of rhizomes of the fern Polypodium vulgare (Polypodiaceae) and single crystal X-ray diffraction study revealed its real structure to be 27. We also found it to be only 500 times sweeter than sucrose as against 3,000 times suggested elsewhere. Therefore, the total synthesis of the real osladin was achieved from steroidal aldehyde 20 by using newly developed β -selective and 2' hydroxyl group-discriminated glucosylation procedure and our original α -selective thermal rhamnosylation reaction. Synthetic osladin was also very sweet and thus we prove that osladin is the real sweet principle of the fern.

ANSWER 6 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN 1.4

ACCESSION NUMBER: 1987:572800 CAPLUS

DOCUMENT NUMBER: 107:172800

Isolation of ecdysones from plants TITLE:

INVENTOR(S): Vargas Gonzalez, Jose

PATENT ASSIGNEE(S): Spain

SOURCE:

Span., 19 pp. CODEN: SPXXAD

DOCUMENT TYPE: Patent LANGUAGE: Spanish

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ES 547554	A1	19860316	ES 1985-547554	19851003
PRIORITY APPLN. INFO.:			ES 1985-547554	19851003
GI				

Ecdysones I (R = OH-substituted aliphatic radical) are extracted from AB leaves and rhizomes of Polypodium leucotomos, P. aureum, Phebodium decumanum and various conifer species. I have immunosuppressant and antiviral activity. Thus, dried powders of any of the above species were extracted with boiling EtOH. The EtOH was evaporated and the residue was partitioned in a hexane-water system (10:4) in order to sep. the liposol. compds. Reverse-phase chromatog. on Amberlite XAP, followed by elution with MeOH gave I. Oral doses of 120 mg I every 8 h, for 10 days, were effective for the treatment of herpes zoster.

ANSWER 7 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1984:607744 CAPLUS

DOCUMENT NUMBER: 101:207744

Chemotaxonomy of fern plants (I). Polypodium TITLE:

amamianum Taqawa

AUTHOR (S): Ageta, Hiroyuki; Arai, Yoko

CORPORATE SOURCE: Showa Coll. Pharm. Sci., Tokyo, 154, Japan Shoyakugaku Zasshi (1984), 38(1), 46-52 SOURCE:

CODEN: SHZAAY; ISSN: 0037-4377

DOCUMENT TYPE: Journal

LANGUAGE: Japanese AB Rhizome of P. amamianum contained fern-7-ene, hop-22(29)-ene, olean-18-ene, olean-12-ene, taraxer-14-ene, multiflor-8-ene, multiflor-7-ene, friedel-3-ene, 22-acetoxyhopane, germanicyl acetate, cycloeucalenyl acetate, cyclolaudenyl acetate, cyclomargenyl acetate, 7α -hydroxytaraxer-14-ene, 17α H-trisnorhopan-21-one, 2-oxofriedel-3-ene, cyclolaudenone and cyclomargenone. They were either individually isolated or identified in the extract by gas chromatog.-mass spectra and 1H NMR. Some of these compds., especially triterpenoids of oleanane or migrated oleanane series contained in P. amamianum suggest close taxonomic relationship between this fern and P. niponicum and P. formosanum. From leaves of the fern, P. amamiamum, 2 new diterpenoids, (13R)-13,14-dihydroxyalepterolic acid and its acetate were isolated and identified. Since these are only in P. amamianum, they may provide a useful means for the taxonomic identification of this fern.

L4 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1979:416672 CAPLUS

DOCUMENT NUMBER: 91:16672

TITLE: Nonpolar pentacyclic triterpenes of the medicinal fern

Polypodium subpetiolatum

Journal

AUTHOR(S): Anderson, Chris; Fuller, Forrest; Epstein, W. W.

CORPORATE SOURCE: Dep. Chem., Univ. Utah, Salt Lake City, UT, 84112, USA

SOURCE: Journal of Natural Products (1979), 42(2), 168-73

CODEN: JNPRDF; ISSN: 0163-3864

DOCUMENT TYPE:

LANGUAGE: English

GI

I, R=Me

II, $R=Me(CH_2)_{14}$

AB The rhizomes of the medicinal Honduran fern P. leucotomos, commonly called "Calaguala", are claimed to exhibit antineoplastic activity. This prompted investigation of the nature of the compds. present in the rhizomes of the Guatamalan fern P subpetiolatum because this plant is also used medicinally and is referred to by the same common name "Calaguala". The isolation, characterization, and identification of the nonpolar fractions of a pentane extract of the rhizomes are described. The following pentacyclic triterpenes were characterized by chemical and phys. methods: 9(11)-fernene, 13(18)-neohopene, diploptene, 7-fernene, 17(21)-hopene, serratene, 3β-methoxy-9(11)-fernene, 3β-hydroxy-9(11)-fernene, 3β-acetoxy-9(115)-fernene (I), and fernenol palmitate (II). Neither I nor II have been previously isolated from natural sources.

L4 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1976:105835 CAPLUS

DOCUMENT NUMBER: 84:105835

TITLE: Structures of four new triterpenes from the

rhizomes of Polypodium

juglandifolium

AUTHOR(S): Sunder, Ramadoss; Ayengar, K. N. Narayan; Rangaswami,

Srinivasa

CORPORATE SOURCE: Dep. Chem., Univ. Delhi, Delhi, India

SOURCE: Journal of the Chemical Society, Perkin Transactions

1: Organic and Bio-Organic Chemistry (1972-1999)

(1976), (1), 117-21 CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE:

Journal LANGUAGE: English

For diagram(s), see printed CA Issue.

AB The structures of the triterpenes I (R = OH, R1 = H; R = H, R1 = OH), II,

and III, extracted from the rhizomes of P. juglandifolium,

were determined from chemical and spectral data. The acetates of II and III

also

occurred in the same plant material.

ANSWER 10 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1971:10541 CAPLUS

DOCUMENT NUMBER:

74:10541

TITLE:

Extraction of ecdysterones from plant

material

INVENTOR(S):

Jizba, Josef; Sorm, Frantisek; Herout, Vlastimil

PATENT ASSIGNEE(S): Ceskoslovenska Akademie Ved

SOURCE:

U.S., 2 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3527777	Α	19700908	US 1968-710687	19680305
PRIORITY APPLN. INFO.:			US 1968-710687 A	19680305

For diagram(s), see printed CA Issue. GI

The insect hormones ecdysterone (I) and hydroxyecdysterone (II) were AB obtained from rhizomes of Polypodium vulgare by H2O or lower alc. extraction Chromatog. of defatted crude extract in

H2O on polyamide gave a crystallization mixture of I and II which was applied

Me2CO to a SiO2 gel column and resolved by elution with CHCl3-MeOH (9:1). II, m. 244-6° (MeOH), is a new compound

ANSWER 11 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1970:118226 CAPLUS

DOCUMENT NUMBER:

72:118226

TITLE:

in

Insect molting hormones from Polypodium

vulgare

PATENT ASSIGNEE(S):

Ceskoslovenska Akademie Ved

SOURCE:

Brit., 3 pp.

DOCUMENT TYPE:

CODEN: BRXXAA

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1175483		19691223	GB _	
CZ 137395			CZ	
DE 1643864			DE	
PRIORITY APPLN. INFO.:			CS	19670209
GI For diagram(s), see	printe	d CA Issue.		

Ecdysterone (Ia) and 5 β -hydroxyecdysterone (Ib) were isolated. Thus dried and ground rhizomes of P. vulgare were exhaustively extracted with EtOH, the solvent evaporated under reduced pressure, and

the residual syrup (92 g) diluted with 400 ml H2O. The resulting mixture was washed exhaustively with petroleum ether, the aqueous solution diluted with an equal volume of MeOH and extracted with 5-8 portions of a n equal volume of n-BuOH or with 10 l. of CHCl3. The BuOH or CHCl3 extract was evaporated to dryness and the residue chromatographed on a polyamide column with 500 ml fractions of H2O as eluent to give a mixture of Ia and Ib. The mixture (5.5 g) in Me2CO was chromatographed again on a column of silica gel (250 g, H2O content 15%) eluted with Me2CO or CHCl3-MeOH (9:1) to give 2 g Ia, m. 243-7° (Me2CO), Ia. 3H2O, m. 151° (H2O) and 0.37 g Ib, m. 244-6° (MeOH).

ANSWER 12 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN 1.4

ACCESSION NUMBER: 1967:479631 CAPLUS

DOCUMENT NUMBER: 67:79631

Plant substances. XXVI. Isolation of constituents of TITLE:

common polypody rhizomes

Jizba, Josef; Herout, Vlastimil AUTHOR(S):

Ceskoslov. Akad. Ved., Prague, Czech. CORPORATE SOURCE:

Collection of Czechoslovak Chemical Communications SOURCE:

(1967), 32(8), 2867-74 CODEN: CCCCAK; ISSN: 0010-0765

DOCUMENT TYPE: Journal LANGUAGE: English

cf. CA 64: 2455h. The following compds. were isolated from the

hydrophilic part of the EtOH extract of the rhizomes of Polypodium vulgare: sucrose, polypodine A (I), m. 150-1°,

[α] 20D + 61.8° (c 0.19, MeOH), polypodine B, m. 244-6°, [α] 20D + 92.8° (c 0.18, MeOH), glucocaffeic

acid, m. 133-5°, [α]20D -80.4°, polydine, m. 191-3°, [α]20D -121.6° (c 0.24, MeOH), osladine, m. 201-3°, samambaine, m. 251-2°, and 2 saponins, m.

199-201° and 213-14°, resp. I is identical with crustecdysone (CA 67: 18149y). The lipophilic part of the extract

contained fernene.

ANSWER 13 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1967:52936 CAPLUS

DOCUMENT NUMBER: 66:52936

Presence of glycyrrhizinic acid in rhizomes TITLE:

of Polypodium vulgare collected in

Netherlands

Van der Vijver, L. M.; Uffelie, O. F. AUTHOR (S):

State Univ., Utrecht, Neth. CORPORATE SOURCE:

Pharmaceutisch Weekblad (1966), 101(51-52), 1137-9 SOURCE:

CODEN: PHWEAW; ISSN: 0031-6911

Journal DOCUMENT TYPE: English LANGUAGE:

AB Rhizomes of the fern, P. vulgare, were gathered in the

Netherlands during September. Exts. were made from fresh and

dried samples. Thin-layer chromatog. and spectrophotometry, failed to detect any glycyrrhizinic acid present in the precipitate from the exts

ANSWER 14 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

1966:75920 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 64:75920 ORIGINAL REFERENCE NO.: 64:14228a-c

TITLE: Triterpenoid epoxide from Polypodium vulgare Berti, G.; Bottari, F.; Marsili, A.; Morelli, I. AUTHOR (S):

Univ. Pisa, Italy CORPORATE SOURCE:

Tetrahedron Letters (1966), (9), 979-82 SOURCE:

CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal LANGUAGE: English

For diagram(s), see printed CA Issue. GI

cf. CA 62, 5135d. Chromatography of the nonsaponifiable fraction of the petr. ether extract from the dry rhizomes of P. vulgare

on neutral Al2O3 (activity II) and elution with petr. ether gave in succession 9(11)-fernene, 22-hopene, and a new compound (I), m. 268-70°, [α]28D 47° (CHCl3), no color with C(NO2)4, and no CO or OH bands in the ir spectrum. I treated with alc. HCl gave a heteroannular conjugated diene (II), m. 155-70°, [α]20D 80° (CHCl3). I was recovered unchanged after refluxing 6 hrs. with LiAlH4 in Et2O. These data indicated the presence of ah indered tetrasubstituted epoxide. II hydrogenated over Pt-C rapidly gave an alkene, changed more slowly to 17(21)-hopene (III), indicating the formulation of II as shown. III treated with p-O2NC6H4CO3H in CHCl3 yielded 80% I, tentatively considered as the β -epoxide. I treated with BF3-Et2O gave a different diene, m. 167-8°, [α]20D 51°, together with 10% of a ketone, m. 266-72° [α]20D 53°.

L4 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1965:29100 CAPLUS

DOCUMENT NUMBER: 62:29100
ORIGINAL REFERENCE NO.: 62:5135d-g

TITLE: Cyclolanostanic triterpenes isolated from ferns
AUTHOR(S): Berti, Giancarlo; Bottari, Francesco; Macchia, Bruno;
Marsili, Antonio; Ourisson, Guy; Piotrowska, Hanna

CORPORATE SOURCE: Inst. Chim., Strasbourg

SOURCE: Bulletin de la Societe Chimique de France (1964), (9),

2359-60

CODEN: BSCFAS; ISSN: 0037-8968

DOCUMENT TYPE: Journal LANGUAGE: French

Polypodium vulgare roots (rhizoma), when extracted by petr. ether, yielded 10% oil, which was then treated with a NaOH-EtOH solution, giving 30% nonhydrolyzed residue. During chromatography of the residue on Al203, petr. ether eluted 12% of the hydrocarbons, mainly fernene; petr. ether-C6H6 47% of the unsatd. alcs. The rechromatography of the last fraction on Al2O3 or better as acetates on SiO2 followed by crystallization of their benzoates yielded 2 components: cyclolaudenol. (I), m. 123-5°, $[\alpha]D$ +45°, and its 4-methyl homolog (II), m. 139-40°, $[\alpha]D + 44°$, 3-acetate, m. 108-10°, 3-benzoate, m. 164-6°, $[\alpha]D +64°$ [$\Delta \epsilon 290$ + 0.91], 3-keto derivs., m. 129-30°. Data for the corresponding derivs. of I are also given. By mass spectroscopy and elemental analysis, the compns. C31H52O for I and C30H50O for II were found. Addnl. data were obtained for both alcs. from ir and N.M.R. spectra relative to the appearance of isopropylene group. The reaction of the benzylidene derivative of II, m. 65-75°, with MeI and tert-BuOK, which yielded the benzylidene derivative of I, m. 110-25°, shows the absence of a Me group on C4 in II in comparison with I. Besides I and II, 2 other unsatd. alcs. were found. The presence of cyclolaudenol in 2 other ferns (Ceterach officinarum and Phyllitis scolopendrium) is announced. A plant material called balatol obtained by Cocker and Shaw CA 58, 6873c was also examined and found to be mainly a mixture of I and II.

L4 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1934:23731 CAPLUS

DOCUMENT NUMBER: 28:23731
ORIGINAL REFERENCE NO.: 28:2847b-f

TITLE: Licorice fern and wild licorice as substitutes for

licorice

AUTHOR(S): Fischer, Louis; Lynn, E. V.

SOURCE: Journal of the American Pharmaceutical Association

(1912-1977) (1933), 22, 1225-30 CODEN: JPHAA3; ISSN: 0003-0465

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB This is a continuation of studies on licorice fern **Polypodium** vulgare L. var. occidentalis Hoak. (C. A. 25, 4087) and a new study of

wild licorice Glycyrrhiza lepidata (Nutt) Pursh. Material was identified by G. N. Jones. Licorice fern rhizomes (A) and leaves (B) were collected near Seattle, Wash. and wild licorice rhizome (C) near The Dalles, O. in June, 1929. Loss in air was (A) 75.6, (B) 74.4 and (C) 59.0%. Loss at 110° was (A) 79.2, (B) 77.1 and (C) 59.9%. The cleaned and air-dried material was used. Total ash was (A) 2.7, (B) 6.2 and (C) 5.2%. Acid-insol. ash was (A) 0.27, (B) 0.08 and (C) 0.55%. Et20-soluble extract was (A) 7.3 and (C) 1.67%. CHCl3-soluble extract was (A) 7.7 and (C) 1.75%. EtOAc-soluble extract was (A) 15.6 and (C) 3.7%. EtOH-soluble extract was (A) 35.8 and (C) 14.3%. H2O-soluble extract was (A) 41.2 and (C) 27.9%. Reducing sugars were (A) 4.2, (B) 17.0 and (C) 2.3%. Sucrose was (A) 15.5, (B) 0.66 and (C) 3.64%. Starch was (A) 6.3 and (C) 3.5%. Pentosans (A. O. A. C.) were (A) 7.75 and (C) 14.6%. N + 6.25 was (A) 9%. Tannin was (A) 2.5%. Alkaloids were absent in each. Glycyrrhizin, Housemann's method (C. A. 15, 2959) (real licorice), was 7.89 and (C) 8.39%. The residues from (A) and (C) were not sweet. The Tschirch and Cedarberg method gave the characteristic sweet acid from genuine licorice but not for (A) and (C). Hence it was concluded that neither of the plants contained genuine glycyrrhizin. Benzoic and salicylic acids were obtained from (B); also a phytosterol m. 132-3° and an unidentified substance m. 74°. A new glucoside polydin was isolated from (A). It had no effect when fed to a rat. If previously extracted with CHCl3 prepns. of (A) might be used in medicine in place of genuine licorice. Licorice fern may be cultivated.

L4 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1931:36351 CAPLUS

DOCUMENT NUMBER: 25:36351

ORIGINAL REFERENCE NO.: 25:4087i,4088a-b

TITLE: Polypodium occidentale

AUTHOR(S): Fischer, Louis J.; Goodrich, F. J.

SOURCE: Journal of the American Pharmaceutical Association

(1912-1977) (1930), 19, 1063-71 CODEN: JPHAA3; ISSN: 0003-0465

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

AB The licorice fern, Polypodium occidentale, is abundant along the northwest American coast from California to Alaska. The rhizomes were collected during 1927 and 1928 and dried at 75°. They were then ground and tested by the A. O. A. C. methods: loss in air 75.44-75.81, loss at 110° 3.48-3.60, total volatile matter 78.92-79.41, ash 2.68-2.69, acid-insol. ash 0.26-0.28 and water-insol. ash 2.06-2.09%. The drug was extracted with various organic solvents and the results recorded. The amount extracted by water was 41.34-41.04%. Glucose or levulose and starch were present. The amount of pentosans was 6.39-6.05, of tannins 3.45-3.89 and of volatile oil 0.0005% by steam distillation The coloring matter was isolated. It dyed silk a fast pale yellow

but had no effect on cotton or wool. Glycyrrhizin was present to the extent of 2.36% (on dried rhizome). Ammoniated glycyrrhizin was prepared; its chemical reactions agreed with those of the same product from glycyrrhiza but its color and taste were not identical. Various pharmaceutical prepns. were made and compared with the analogous preparation from licorice. These prepns. were not the equal of the official preparation; most of them had a bitter taste. The rhizome contains a starch-splitting enzyme. A fluidext. of the rhizome was not toxic to rats.

L4 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1925:17435 CAPLUS

DOCUMENT NUMBER: 19:17435 ORIGINAL REFERENCE NO.: 19:2259e-g

TITLE: Polypodium vulgare, L AUTHOR(S): Volmar, J.; Reeb, E. SOURCE: Journal de Pharmacie d'Alsace et de Lorraine (1924),

51, 190-3 CODEN: JPHLA2

DOCUMENT TYPE:

Journal

LANGUAGE:

Unavailable

AB The rhizome of Polypodium owes its cholagog action

(Leclerc, L'Union pharm. 1921, 137) to a glucoside, polypodin. From 500

g. of rhizome remove glycyrrhizin (A) by cold aqueous maceration for

48 hrs., then boil with 1 l. H2O for 1 hr., cool, filter and evaporate to 500 cc., precipitate the remainder of A with 1: 5 H2SO4, again filter, saturate with

NH4-OH and evaporate to dryness. Take up with 150 cc. of H2O, add 100 g. (NH4)2SO4 and warm to complete solution of the salt; filter the precipitate formed,

wash it with a cold saturated solution of the salt, and extract with EtOH. Evaporate the alc. solution to dryness, and treat with H2O. An insol. brown resin is left, soluble in dilute alkali. Treat the aqueous solution with Pb(AcO)2,

remove Pb with H2S, expose to air for 48 hrs., filter and evaporate to crystallization $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

Polypodin forms yellowish plates, m. $151^{\circ}-152^{\circ}$, soluble in H2O and organic solvents. It is a bitter, sapogenetic glucoside, free from N. Several color tests are given.

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(FILE 'HOME' ENTERED AT 07:47:12 ON 17 MAR 2006)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 07:47:23 ON 17 MAR 2006 SEA (POLYPODIUM) AND (EXTRACT###)

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3 FILE ADISNEWS
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⁸ FILE AGRICOLA

¹ FILE ANABSTR

⁵⁵ FILE BIOSIS

⁶ FILE BIOTECHABS

⁶ FILE BIOTECHDS

¹⁰ FILE BIOTECHNO

³⁵ FILE CABA

⁸⁰ FILE CAPLUS

¹ FILE CONFSCI

¹ FILE CROPB

⁵ FILE CROPU

¹ FILE DDFB

²⁶ FILE DDFU

³ FILE DISSABS 1 FILE DRUGB

⁸ FILE DRUGMONOG2

³¹ FILE DRUGU

¹ FILE EMBAL

⁶⁶ FILE EMBASE

²⁰ FILE ESBIOBASE

² FILE FROSTI

² FILE FSTA

⁶ FILE IFIPAT

⁶ FILE IMSPRODUCT

³ FILE KOSMET

³ FILE LIFESCI

²⁴ FILE MEDLINE

²⁵ FILE PASCAL

¹ FILE PROMT

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FILE TOXCENTER
              15
                   FILE USPATFULL
               36
                   FILE USPAT2
               2
              24
                   FILE WPIDS
                   FILE WPINDEX
              24
L1
                QUE (POLYPODIUM) AND (EXTRACT###)
     FILE 'CAPLUS' ENTERED AT 07:48:46 ON 17 MAR 2006
L2
             80 S (POLYPODIUM) AND (EXTRACT###)
L3
             80 DUP REM L2 (0 DUPLICATES REMOVED)
L4
             18 S L2 AND (RHIZOME)
=> s l1 and (lactic acid or citric acid)
           272 POLYPODIUM
        249487 EXTRACT###
        303742 EXT
        222957 EXTS
        469821 EXT
                  (EXT OR EXTS)
        351673 EXTD
             7 EXTDS
        351675 EXTD
                  (EXTD OR EXTDS)
         54521 EXTG
             1 EXTGS
         54522 EXTG
                  (EXTG OR EXTGS)
        390924 EXTN
         14030 EXTNS
        396438 EXTN
                  (EXTN OR EXTNS)
       1063079 EXTRACT###
                  (EXTRACT### OR EXT OR EXTD OR EXTG OR EXTN)
         95849 LACTIC
            26 LACTICS
         95858 LACTIC
                  (LACTIC OR LACTICS)
       4115614 ACID
       1514498 ACIDS
       4603322 ACID
                  (ACID OR ACIDS)
         81614 LACTIC ACID
                  (LACTIC(W)ACID)
         80635 CITRIC
             2 CITRICS
         80637 CITRIC
                  (CITRIC OR CITRICS)
       4115614 ACID
       1514498 ACIDS
       4603322 ACID
                  (ACID OR ACIDS)
         76079 CITRIC ACID
                  (CITRIC(W)ACID)
L5
             0 L1 AND (LACTIC ACID OR CITRIC ACID)
=> s ll and acid
           272 POLYPODIUM
        249487 EXTRACT###
        303742 EXT
        222957 EXTS
        469821 EXT
                  (EXT OR EXTS)
        351673 EXTD
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FILE SCISEARCH

43

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7 EXTDS
        351675 EXTD
                 (EXTD OR EXTDS)
         54521 EXTG
             1 EXTGS
         54522 EXTG
                 (EXTG OR EXTGS)
        390924 EXTN
         14030 EXTNS
        396438 EXTN
                 (EXTN OR EXTNS)
       1063079 EXTRACT###
                 (EXTRACT### OR EXT OR EXTD OR EXTG OR EXTN)
       4115614 ACID
       1514498 ACIDS
       4603322 ACID
                 (ACID OR ACIDS)
            29 L1 AND ACID
L6
=> d scan
      29 ANSWERS
                   CAPLUS COPYRIGHT 2006 ACS on STN
L6
IC
     ICM A61K031-70
     1-7 (Pharmacology)
     Section cross-reference(s): 11, 63
     Sulfoquinovosyldiacylglycerols (SQDG) for treatment of inflammatory skin
TI
     disorders
     Polypodium sulfoquinovosyldiacylglycerol antiinflammatory skin
ST
IT
     Polypodium decumanum
        (and Calaquala extract; sulfoquinovosyldiacylglycerols for
        treatment of inflammatory skin disorders, and isolation from
        Polypodium decumanum)
IT
     Dermatitis
        (atopic; sulfoquinovosyldiacylglycerols for treatment of inflammatory
        skin disorders)
IT
     Drug delivery systems
     Drug delivery systems
        (emulsions, oral; sulfoquinovosyldiacylglycerols for treatment of
        inflammatory skin disorders)
IΤ
     Drug delivery systems
        (enteric; sulfoquinovosyldiacylglycerols for treatment of inflammatory
        skin disorders)
IT
     Drug delivery systems
        (parenterals; sulfoquinovosyldiacylglycerols for treatment of
        inflammatory skin disorders)
IT
     Fatty acids, biological studies
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
     (Uses)
        (polyunsatd.; sulfoquinovosyldiacylglycerols, and combinations with
        polyunsatd. fatty acids, for treatment of inflammatory skin
        disorders)
     Proliferation inhibition
IT
        (proliferation inhibitors; sulfoquinovosyldiacylglycerols for treatment
        of inflammatory skin disorders)
IT
     Drug delivery systems
        (rectal; sulfoquinovosyldiacylglycerols for treatment of inflammatory
        skin disorders)
IT
    Diglycerides
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
     (Uses)
        (sulfoquinovosyl; sulfoquinovosyldiacylglycerols for treatment of
        inflammatory skin disorders)
IT
     Anti-inflammatory agents
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Dermatitis
     Drug delivery systems
     Psoriasis
     Urticaria
        (sulfoquinovosyldiacylglycerols for treatment of inflammatory skin
        disorders)
IT
     Platelet-activating factor receptors
     RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
     (Biological study); PROC (Process)
        (sulfoquinovosyldiacylglycerols for treatment of inflammatory skin
        disorders)
IT
    Drug delivery systems
        (topical; sulfoquinovosyldiacylglycerols for treatment of inflammatory
        skin disorders)
TT
     65154-06-5, Platelet-activating factor
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); BIOL (Biological study)
        (sulfoquinovosyldiacylglycerols for treatment of inflammatory skin
        disorders)
TT
     199531-44-7P
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); PUR (Purification or recovery); THU (Therapeutic
     use); BIOL (Biological study); PREP (Preparation); USES (Uses)
        (sulfoquinovosyldiacylglycerols for treatment of inflammatory skin
        disorders)
IT
     199281-23-7
                   199281-23-7D, acyl derivs.
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
     (Uses)
        (sulfoquinovosyldiacylglycerols for treatment of inflammatory skin
        disorders)
     60-33-3, Linoleic acid, biological studies
                                                   463-40-1
IT
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
     (Uses)
        (sulfoquinovosyldiacylglycerols, and combinations with polyunsatd.
        fatty acids, for treatment of inflammatory skin disorders)
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0
=> s ll and citric acid
           272 POLYPODIUM
        249487 EXTRACT###
        303742 EXT
        222957 EXTS
        469821 EXT
                 (EXT OR EXTS)
        351673 EXTD
             7 EXTDS
        351675 EXTD
                 (EXTD OR EXTDS)
         54521 EXTG
             1 EXTGS
         54522 EXTG
                 (EXTG OR EXTGS)
        390924 EXTN
         14030 EXTNS
        396438 EXTN
                 (EXTN OR EXTNS)
       1063079 EXTRACT###
                 (EXTRACT### OR EXT OR EXTD OR EXTG OR EXTN)
         80635 CITRIC
             2 CITRICS
         80637 CITRIC
```

Cytotoxic agents

```
(CITRIC OR CITRICS)
       4115614 ACID
       1514498 ACIDS
       4603322 ACID
                  (ACID OR ACIDS)
         76079 CITRIC ACID
                  (CITRIC(W)ACID)
L7
             0 L1 AND CITRIC ACID
=> s l1 and fumaric acid
           272 POLYPODIUM
        249487 EXTRACT###
        303742 EXT
        222957 EXTS
        469821 EXT
                  (EXT OR EXTS)
        351673 EXTD
             7 EXTDS
        351675 EXTD
                  (EXTD OR EXTDS)
         54521 EXTG
             1 EXTGS
         54522 EXTG
                  (EXTG OR EXTGS)
        390924 EXTN
         14030 EXTNS
        396438 EXTN
                  (EXTN OR EXTNS)
       1063079 EXTRACT###
                  (EXTRACT### OR EXT OR EXTD OR EXTG OR EXTN)
         20750 FUMARIC
             1 FUMARICS
         20750 FUMARIC
                  (FUMARIC OR FUMARICS)
       4115614 ACID
       1514498 ACIDS
       4603322 ACID
                  (ACID OR ACIDS)
         18746 FUMARIC ACID
                (FUMARIC(W)ACID)
L8
             0 L1 AND FUMARIC ACID
=> s l1 and quinic acid
           272 POLYPODIUM
        249487 EXTRACT###
        303742 EXT
        222957 EXTS
        469821 EXT
                  (EXT OR EXTS)
        351673 EXTD
             7 EXTDS
        351675 EXTD
                  (EXTD OR EXTDS)
         54521 EXTG
             1 EXTGS
         54522 EXTG
                  (EXTG OR EXTGS)
        390924 EXTN
         14030 EXTNS
        396438 EXTN
                  (EXTN OR EXTNS)
       1063079 EXTRACT###
                 (EXTRACT### OR EXT OR EXTD OR EXTG OR EXTN)
          2241 QUINIC
       4115614 ACID
```

```
4603322 ACID
                 (ACID OR ACIDS)
          2010 QUINIC ACID
                 (QUINIC(W)ACID)
L9
             0 L1 AND QUINIC ACID
=> s l1 and malic acid
           272 POLYPODIUM
        249487 EXTRACT###
        303742 EXT
        222957 EXTS
        469821 EXT
                 (EXT OR EXTS)
        351673 EXTD
             7 EXTDS
        351675 EXTD
                 (EXTD OR EXTDS)
         54521 EXTG
             1 EXTGS
         54522 EXTG
                 (EXTG OR EXTGS)
        390924 EXTN
         14030 EXTNS
        396438 EXTN
                 (EXTN OR EXTNS)
       1063079 EXTRACT###
                  (EXTRACT### OR EXT OR EXTD OR EXTG OR EXTN)
         30805 MALIC
       4115614 ACID
       1514498 ACIDS
       4603322 ACID
                  (ACID OR ACIDS)
         21629 MALIC ACID
                 (MALIC(W)ACID)
L10
             0 L1 AND MALIC ACID
=> s fern near extract###
          3098 FERN
          1655 FERNS
          3841 FERN
                 (FERN OR FERNS)
        543242 NEAR
           323 NEARS
        543522 NEAR
                 (NEAR OR NEARS)
        249487 EXTRACT###
        303742 EXT
        222957 EXTS
        469821 EXT
                 (EXT OR EXTS)
        351673 EXTD
             7 EXTDS
        351675 EXTD
                 (EXTD OR EXTDS)
         54521 EXTG
             1 EXTGS
         54522 EXTG
                  (EXTG OR EXTGS)
        390924 EXTN
         14030 EXTNS
        396438 EXTN
                  (EXTN OR EXTNS)
       1063079 EXTRACT###
                  (EXTRACT### OR EXT OR EXTD OR EXTG OR EXTN)
```

1514498 ACIDS

```
L11
            O FERN NEAR EXTRACT###
                (FERN(W)NEAR(W)EXTRACT###)
=> s fern same extract###
          3098 FERN
          1655 FERNS
          3841 FERN
                (FERN OR FERNS)
       1412634 SAME
            64 SAMES
       1412694 SAME
                (SAME OR SAMES)
        249487 EXTRACT###
        303742 EXT
        222957 EXTS
        469821 EXT
                 (EXT OR EXTS)
        351673 EXTD
             7 EXTDS
        351675 EXTD
                 (EXTD OR EXTDS)
         54521 EXTG
             1 EXTGS
         54522 EXTG
                 (EXTG OR EXTGS)
        390924 EXTN
        14030 EXTNS
        396438 EXTN
                 (EXTN OR EXTNS)
       1063079 EXTRACT###
                (EXTRACT### OR EXT OR EXTD OR EXTG OR EXTN)
             O FERN SAME EXTRACT###
L12
                (FERN(W)SAME(W)EXTRACT###)
=> s fern and extract###
          3098 FERN
          1655 FERNS
          3841 FERN
                 (FERN OR FERNS)
        249487 EXTRACT###
        303742 EXT
        222957 EXTS
        469821 EXT
                (EXT OR EXTS)
        351673 EXTD
            7 EXTDS
        351675 EXTD
                (EXTD OR EXTDS)
         54521 EXTG
             1 EXTGS
         54522 EXTG
                 (EXTG OR EXTGS)
        390924 EXTN
        14030 EXTNS
        396438 EXTN
                 (EXTN OR EXTNS)
       1063079 EXTRACT###
                (EXTRACT### OR EXT OR EXTD OR EXTG OR EXTN)
          692 FERN AND EXTRACT###
=> s 113 and (rhizome or root)
          4519 RHIZOME
          4561 RHIZOMES
          7449 RHIZOME
```

(RHIZOME OR RHIZOMES)

```
159750 ROOT
         93284 ROOTS
        205341 ROOT
                 (ROOT OR ROOTS)
L14
           131 L13 AND (RHIZOME OR ROOT)
=> dup rem
ENTER L# LIST OR (END):114
PROCESSING COMPLETED FOR L14
L15
            131 DUP REM L14 (0 DUPLICATES REMOVED)
=> d scan
                    CAPLUS COPYRIGHT 2006 ACS on STN
L15
     131 ANSWERS
CC
     11-1 (Plant Biochemistry)
     Section cross-reference(s): 1
     The histamine releasing activity of bracken fern.
TI
     Demonstration of glucosides in the active extract
     glucoside bracken fern; glycoside bracken fern
ST
IT
     Mast cell
        (histamine-induced release from, by bracken fern
        extractive)
IT
     Bracken
        (histamine-releasing compound from)
IT
     Amino acids, biological studies
     Glycosides
     Sugars, biological studies
     RL: BOC (Biological occurrence); BSU (Biological study, unclassified);
     BIOL (Biological study); OCCU (Occurrence)
        (of bracken fern)
     51-45-6, biological studies
IT
     RL: BIOL (Biological study)
        (release of, bracken fern extractive induction of)
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0
=> s (polypodium leucotomos) and (root or rhizome)
           272 POLYPODIUM
            33 LEUCOTOMOS
            32 POLYPODIUM LEUCOTOMOS
                 (POLYPODIUM(W) LEUCOTOMOS)
        159750 ROOT
         93284 ROOTS
        205341 ROOT
                 (ROOT OR ROOTS)
          4519 RHIZOME
          4561 RHIZOMES
          7449 RHIZOME
                 (RHIZOME OR RHIZOMES)
L16
             7 (POLYPODIUM LEUCOTOMOS) AND (ROOT OR RHIZOME)
=> d total ibib abd
'ABD' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'
The following are valid formats:
ABS ----- GI and AB
ALL ----- BIB, AB, IND, RE
APPS ----- AI, PRAI
BIB ----- AN, plus Bibliographic Data and PI table (default)
CAN ----- List of CA abstract numbers without answer numbers
CBIB ----- AN, plus Compressed Bibliographic Data
CLASS ----- IPC, NCL, ECLA, FTERM
DALL ----- ALL, delimited (end of each field identified)
DMAX ----- MAX, delimited for post-processing
```

```
FAM ----- AN, PI and PRAI in table, plus Patent Family data
FBIB ----- AN, BIB, plus Patent FAM
IND ----- Indexing data
IPC ----- International Patent Classifications
MAX ----- ALL, plus Patent FAM, RE
PATS ----- PI, SO
SAM ----- CC, SX, TI, ST, IT
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
             SCAN must be entered on the same line as the DISPLAY,
             e.g., D SCAN or DISPLAY SCAN)
STD ----- BIB, CLASS
IABS ----- ABS, indented with text labels
IALL ----- ALL, indented with text labels
IBIB ----- BIB, indented with text labels
IMAX ----- MAX, indented with text labels
ISTD ----- STD, indented with text labels
OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels
SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations
HIT ----- Fields containing hit terms
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)
             containing hit terms
HITRN ----- HIT RN and its text modification
HITSTR ----- HIT RN, its text modification, its CA index name, and
             its structure diagram
HITSEQ ----- HIT RN, its text modification, its CA index name, its
             structure diagram, plus NTE and SEQ fields
FHITSTR ---- First HIT RN, its text modification, its CA index name, and
             its structure diagram
FHITSEQ ---- First HIT RN, its text modification, its CA index name, its
             structure diagram, plus NTE and SEQ fields
KWIC ----- Hit term plus 20 words on either side
OCC ----- Number of occurrence of hit term and field in which it occurs
To display a particular field or fields, enter the display field
codes. For a list of the display field codes, enter HELP DFIELDS at
an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST;
TI, IND; TI, SO. You may specify the format fields in any order and the
information will be displayed in the same order as the format
specification.
All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR,
FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC
to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):d total ibib abs
'D' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'
The following are valid formats:
ABS ----- GI and AB
```

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ALL ----- BIB, AB, IND, RE

APPS ----- AI, PRAI

BIB ----- AN, plus Bibliographic Data and PI table (default)

CAN ----- List of CA abstract numbers without answer numbers

CBIB ----- AN, plus Compressed Bibliographic Data

CLASS ----- IPC, NCL, ECLA, FTERM

DALL ----- ALL, delimited (end of each field identified)

DMAX ----- MAX, delimited for post-processing

FAM ----- AN, PI and PRAI in table, plus Patent Family data

FBIB ----- AN, BIB, plus Patent FAM
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IND ----- Indexing data
IPC ----- International Patent Classifications
MAX ----- ALL, plus Patent FAM, RE
PATS ----- PI, SO
SAM ----- CC, SX, TI, ST, IT
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
              SCAN must be entered on the same line as the DISPLAY,
              e.g., D SCAN or DISPLAY SCAN)
STD ----- BIB, CLASS
IABS ----- ABS, indented with text labels
IALL ------ ALL, indented with text labels IBIB ------ BIB, indented with text labels IMAX ----- MAX, indented with text labels ISTD ----- STD, indented with text labels
OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels
SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations
HIT ----- Fields containing hit terms
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)
              containing hit terms
HITRN ----- HIT RN and its text modification
HITSTR ----- HIT RN, its text modification, its CA index name, and
              its structure diagram
HITSEQ ----- HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
FHITSTR ---- First HIT RN, its text modification, its CA index name, and
              its structure diagram
FHITSEQ ---- First HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
KWIC ----- Hit term plus 20 words on either side
OCC ----- Number of occurrence of hit term and field in which it occurs
To display a particular field or fields, enter the display field
codes. For a list of the display field codes, enter HELP DFIELDS at
an arrow prompt (=>). Examples of formats include: TI; TI, AU; BIB, ST;
TI, IND; TI, SO. You may specify the format fields in any order and the
information will be displayed in the same order as the format
specification.
All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR,
FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC
to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):none
'NONE' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'
The following are valid formats:
ABS ----- GI and AB
ALL ----- BIB, AB, IND, RE
APPS ----- AI, PRAI
BIB ----- AN, plus Bibliographic Data and PI table (default)
CAN ----- List of CA abstract numbers without answer numbers
CBIB ----- AN, plus Compressed Bibliographic Data
CLASS ----- IPC, NCL, ECLA, FTERM
DALL ----- ALL, delimited (end of each field identified)
DMAX ----- MAX, delimited for post-processing
FAM ----- AN, PI and PRAI in table, plus Patent Family data
FBIB ----- AN, BIB, plus Patent FAM
IND ----- Indexing data
IPC ----- International Patent Classifications
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MAX ----- ALL, plus Patent FAM, RE
PATS ----- PI, SO
SAM ----- CC, SX, TI, ST, IT
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
              SCAN must be entered on the same line as the DISPLAY,
              e.g., D SCAN or DISPLAY SCAN)
STD ----- BIB, CLASS ·
IABS ----- ABS, indented with text labels
IALL ------ ALL, indented with text labels IBIB ------ BIB, indented with text labels IMAX ----- MAX, indented with text labels ISTD ------ STD, indented with text labels
OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels
SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations
HIT ----- Fields containing hit terms
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)
              containing hit terms
HITRN ----- HIT RN and its text modification
HITSTR ----- HIT RN, its text modification, its CA index name, and
              its structure diagram
HITSEQ ----- HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
FHITSTR ---- First HIT RN, its text modification, its CA index name, and
              its structure diagram
FHITSEQ ---- First HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
KWIC ----- Hit term plus 20 words on either side
OCC ----- Number of occurrence of hit term and field in which it occurs
To display a particular field or fields, enter the display field
codes. For a list of the display field codes, enter HELP DFIELDS at
an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST;
TI, IND; TI, SO. You may specify the format fields in any order and the
information will be displayed in the same order as the format
specification.
All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR,
FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC
to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):ibib
L16 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
                          2003:984805 CAPLUS
ACCESSION NUMBER:
                          Novel therapeutic use of polypodium extracts
TITLE:
INVENTOR(S):
                          Quintanilla, Almagro Eliseo
                          Especialidades Farmaceuticas Centrum, S.A., Spain;
PATENT ASSIGNEE(S):
                          Quintanilla Almagro, Eliseo
SOURCE:
                          PCT Int. Appl.
                          CODEN: PIXXD2
DOCUMENT TYPE:
                          Patent
LANGUAGE:
                          Spanish
```

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2003103695 A1 20031218 WO 2003-ES272 20030605

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
              LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
              PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT,
              TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     ES 2197018
                                  20031216
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                                                                        20020606
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                                  20051001
                                               CA 2003-2488356
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                           AΑ
                                  20031218
     AU 2003240850
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                                  20031222
                                               AU 2003-240850
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                                               JP 2004-510814
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     JP 2005528452
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                                  20050922
                                                                    A 20020606
                                               ES 2002-1345
PRIORITY APPLN. INFO.:
                                               WO 2003-ES272
                                                                    W 20030605
REFERENCE COUNT:
                           8
                                 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
                                 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
                     CAPLUS COPYRIGHT 2006 ACS on STN
L16 ANSWER 2 OF 7
                           2002:665288 CAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                           138:378786
TITLE:
                           Anapsos (Polypodium leucotomos)
                           modulates lymphoid cells and the expression of
                           adhesion molecules
                           Sempere-Ortells, J. M.; Campos, A.; Velasco, I.;
AUTHOR (S):
                          Marco, F.; Ramirez-Bosca, A.; Diaz, J.; Pardo, J.
                          Division of Immunology, Department of Biotechnology, University of Alicante, Alicante, Spain
CORPORATE SOURCE:
                           Pharmacological Research (2002), 46(2), 185-190
SOURCE:
                          CODEN: PHMREP; ISSN: 1043-6618
PUBLISHER:
                          Elsevier Science Ltd.
DOCUMENT TYPE:
                          Journal
                          English
LANGUAGE:
                                 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                           25
                                 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L16 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
                           2000:508244 CAPLUS
ACCESSION NUMBER:
                           Utilization of formulations based on water-soluble
TITLE:
                           fractions of Phlebodium decumanum(exply-37) and
                           Polypodium leucotomos as nutritional
                           supplement in the prevention and reversion of
                           excessive physical effort syndrome
                           Yesares Ferrer, Miguel; De Teresa Galvan, Carlos;
INVENTOR (S):
                          Alcaide Garcia, Antonio; Yesares Morillas, Miguel
                           Enrique
PATENT ASSIGNEE(S):
                           Helsint, S.A.L., Spain; Helechos Internacional
                           Honduras, S.A. De C.V.
                           PCT Int. Appl.
SOURCE:
                           CODEN: PIXXD2
DOCUMENT TYPE:
                           Patent
LANGUAGE:
                           Spanish
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                          KIND
                                  DATE
                                              APPLICATION NO.
                                                                       DATE
     WO 2000043022
                          A1
                                  20000727
                                               WO 2000-ES21
                                                                        20000120
         W: BR, CA, MX, UA, US
         RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT, SE
     ES 2146555
                                  20000801
                                               ES 1999-133
                                                                        19990122
                           A1
                                  20010301
     ES 2146555
                          B1
PRIORITY APPLN. INFO.:
                                               ES 1999-133
                                                                     A 19990122
REFERENCE COUNT:
                          5
                                 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
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L16 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1997:146151 CAPLUS

DOCUMENT NUMBER:

126:198476

TITLE:

Effect of Anapsos (Polypodium

leucotomos extract) on in vitro production of

cytokines

AUTHOR (S):

Sempere, J. M.; Rodrigo, C.; Campos, A.; Villalba, J.

F.; Diaz, J.

CORPORATE SOURCE:

Scientific Dept., ASAC Pharmaceutical International,

Alicante, 03006, Spain

SOURCE:

British Journal of Clinical Pharmacology (1997),

43(1), 85-89 CODEN: BCPHBM; ISSN: 0306-5251

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

Blackwell Journal English

L16 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1987:572800 CAPLUS

DOCUMENT NUMBER:

107:172800

TITLE:

Isolation of ecdysones from plants

INVENTOR(S):

Vargas Gonzalez, Jose

PATENT ASSIGNEE(S):

Spain

SOURCE:

Span., 19 pp. CODEN: SPXXAD

DOCUMENT TYPE: Patent

LANGUAGE:

Spanish

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ES 547554	A1	19860316	ES 1985-547554	19851003
PRIORITY APPLN. INFO.:			ES 1985-547554	19851003

L16 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1983:551816 CAPLUS

DOCUMENT NUMBER:

99:151816

TITLE:

SOURCE:

Anapsos, an antipsoriatic drug which increases the proportion of suppressor cells in human peripheral

blood

AUTHOR(S):

Vargas, J.; Munoz, C.; Osorio, C.; Garcia-Olivares, E.

CORPORATE SOURCE:

Dep. Fisiol. Bioquim., Fac. Med., Granada, Spain

Annales d'Immunologie (Paris) (1983), 134C(3), 393-400

CODEN: ANIMCZ; ISSN: 0300-4910

DOCUMENT TYPE:

Journal

LANGUAGE:

English

L16 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1975:603775 CAPLUS

DOCUMENT NUMBER:

83:203775

TITLE:

Triterpenes from rhizomes of

Polypodium leucotomos

AUTHOR (S):

Horvath, Antonio R.; De Szocs, Joseph; Alvarado,

CORPORATE SOURCE:

Francisco; Grant, David J. W.

Dep. Physiol. Sci., Natl. Auton. Univ. Honduras,

Tegucigalpa, Honduras

Phytochemistry (Elsevier) (1975), 14(7), 1641-2 CODEN: PYTCAS: ISSN: 0031-9422

DOCUMENT TYPE:

Journal

LANGUAGE:

SOURCE:

English

=> FIL STNGUIDE

SINCE FILE TOTAL ENTRY SESSION COST IN U.S. DOLLARS

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FILE CONTAINS CURRENT INFORMATION. LAST RELOADED: Mar 10, 2006 (20060310/UP).

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LOGOFF? (Y)/N/HOLD:n

=> logoff

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LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS SINCE FILE TOTAL

SESSION ENTRY

FULL ESTIMATED COST 0.72 210.67

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> ENTRY SESSION

CA SUBSCRIBER PRICE 0.00 -27.75

STN INTERNATIONAL LOGOFF AT 08:34:14 ON 17 MAR 2006